

# SAATIVIT PHU 2

## APPLICATIONS

Automotive and architectural glass printing  
Suitable for CTS DLE exposure

## GENERAL CHARACTERISTICS

- Red pure photopolymer emulsion
- Very high solids content (42%) for high resolution and definition
- Resistant to UV-cured, water-based UV-cured and solvent-based ink for the glass decoration market
- Exposes 3 times faster than diazo or dual-cure emulsions
- Suitable for use with CTS DLE technology (Direct Light Exposure for Computer to Screen Technology)

## DIRECTIONS FOR USE

Handle under yellow safelight or low wattage tungsten lights. Avoid exposure to daylight, quartz/halogen lamps, cool white fluorescent lamps or discharge lamps.

### Sensitizing and Mixing

Emulsion is pre-sensitized during production and does not require mixing.

### Mesh preparation and degreasing

Degrease new mesh with Direct Prep 2 in order to optimise stencil adhesion; dry and store the screen in a dust free, dry environment prior to coating. In order to achieve best results and avoid the use of chemicals, you can preferably use Mesh with Plasma Treatment.

### Coating

SAATIVIT PHU 2 can be coated by hand or with the use of an automatic coating machine

Apply one or two coats to the substrate side of the screen, followed by one or two coats on the squeegee side. For a thicker stencil, apply additional coats to the squeegee side prior to drying.

For a higher quality stencil with a minimal increase in stencil thickness, apply one or two additional coats to the substrate side of the screen after the initial coats have dried.

### Drying and storage

Thoroughly dry the coated screen at a maximum temperature of 104°F (40°C) in a dust free, dark or yellow light area, with the substrate side facing down to optimize stencil quality.

Coated screens should be stored in a dust free, dry, safelight environment.

### Exposing

SAATIVIT PHU 2 has high sensitivity to UV light and is suitable for use With DLE machines.

Exposure speed depends on mesh count and its colour and the number of coats of emulsion. Perform an exposure test with a 21-step Sensitivity Guide to determine correct exposure speed. The 21-step Sensitivity Guide should be taped directly to the surface of the emulsion in an area that will be fully exposed. SAATIVIT PHU 2 stencils should hold a solid step 5 after thorough developing to guarantee proper resistance during printing, maintaining excellent resolution.

### Developing

Wet both sides of the screen with a strong, finely divided spray of water and continue washing out until all image areas are fully open. Rinse both sides of the screen and dry thoroughly before use. A properly exposed and developed screen will not leave residues on the squeegee side.

### Post exposing

Post expose with daylight or exposure lamp to produce a more water-resistance stencil

### Reclaiming

Remove all ink residues immediately after printing with an appropriate solvent. Remove stencil with Remove ER series and a pressure washer. For stains and ghost images, use Remove HR series followed by a pressure washer.

## HEALTH AND SAFETY

Before using, refer to appropriate material safety data sheets.

## PROBLEM SOLVING

### **Poor coating quality**

- Properly clean, degrease and rinse the screen to remove all residues and traces of chemicals
- Properly and evenly tension the fabric
- Clean and ensure the scoop coater does not present any defect edge.

### **Poor detail or difficulty washing out image**

- Ensure emulsion and coated screens are handled in safelight conditions only
- Optimize exposure time
- Do not store emulsion or coated screen at high temperatures.

### **Emulsion falls off, extreme pinholes or severe stencil breakdown during printing**

- Ensure that damp screens are not being exposed
- Only expose screens with an even and consistent coating thickness

- Ensure that stencil has not been severely underexposed
- Ensure emulsion is not too old and has not been stored at high temperature.

### **Difficulty reclaiming screens**

- Non reclaimable once catalysed
- Optimize exposure time and properly rinse the squeegee side of the screen during developing to remove all residual traces, especially when using higher mesh count dyed fabric.

## STORAGE

When sealed in the original container and stored in cool conditions, SAATIVIT PHU 2 will maintain original properties for 24 months from the date of production.

## PACKAGING

Available in 1, 5 and 200 kilogram containers. In North America, available in one, five and fifty US gallon containers.

#### WARRANTY AND LIMITED REMEDY

The directions, recommendations and specifications contained in this Technical Data Sheet are meant as a guide to the use of the product and shall not bind the company. Product specifications are subject to change without notice.

The following is made in lieu of all other expressed or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose: all Saatichem manufactured liquid products are warranted to be free of defects in materials and manufacture and to meet the specifications stated in Saatichem applicable Product Bulletin. Saatichem will replace or refund the price of any Saatichem manufactured liquid product that does not meet this warranty within the applicable warranty period.

The remedies are exclusive. In no case shall Saatichem be liable for any other direct or indirect damage or loss, including without limitation any incidental, special or consequential damages, or any material costs or labor charges incident to the removal or replacement of any mesh, screen, ink, substrate, finished graphic or any other item.